

I CLAIM:

1.     Rotary growing apparatus comprising:  
            a single ring;  
            a support means for said single ring;  
            means for rotatably driving said single ring about a rotational axis of said ring;  
            a plurality of medium retaining members extending transversely of said ring, each  
of said medium retaining members being secured to said ring; and  
            at least one light source interiorly of said ring.
2.     The rotary growing apparatus of Claim 1 wherein each of said medium retaining  
members is removably secured to said single ring by clip means.
3.     The rotary growing apparatus of Claim 1 further including liquid feeding means or  
feeding a liquid to said medium retaining members while said apparatus is rotating, said  
liquid feeding means being designed to feed said liquid to said medium retaining member  
while said medium retaining member is in an upper quadrant of its rotation.
4.     The rotary growing apparatus of Claim 3 wherein each of said medium retaining  
members has a plurality of apertures formed in a back wall thereof to permit feeding of a  
liquid therethrough.
5.     The rotary growing apparatus of Claim 1 wherein said single ring is comprised of a  
plurality of ring segments, each of said ring segments has attachment means at each end  
thereof for securement to an adjacent ring segment, the arrangement being such that  
different size rings may be assembled by added or removing one or more ring segments.
6.     The rotary apparatus of Claim 5 wherein said ring segments are secured together by

mechanical fastening means extending through apertures, one of said apertures being a slot to permit adjustment of the angle at which an adjacent ring segment is secured.

7. A rotary growing apparatus comprising:

at least one ring;

support means for said at least one ring;

means for rotatably driving said at least one ring above the rotational axis of said at least one ring;

a plurality of medium retaining members extending transversely of said at least one ring;

each of said medium retaining members being secured to said at least one ring;

at least one light source interiorly of said at least one ring; and

said at least one ring being comprised of a plurality of ring segments, each of said ring segments having attachment means at each end for securement to an adjacent ring segment, the arrangement being such that different size rings may be assembled from said ring segments.

8. The rotary growing apparatus of Claim 7 wherein said apparatus has a pair of rings, said plurality of medium retaining members being secured to each of said rings.

9. The rotary growing apparatus of Claim 7 wherein each ring segment is secured to an adjacent ring segment by means of a mechanical fastener extending through apertures located in said ring segment, one of said apertures being a slot to permit an adjustable angle between adjacent ring segments.

10. The rotary growing apparatus of Claim 7 comprising an inner cylindrical member, a outer cylindrical member, said medium retaining members being mounted between said

inner member and a plurality of slots formed in said inner member to permit plant growth therethrough.

11. The rotary growing apparatus of Claim 10 further including means for injecting plant nutrients between said first and second members.